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	#5 Search #3 and structure	14:21:25	6
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	#7 Search Hewitsona nd 26351	13:30:17	0
	#4 Search #3 and crystal	13:16:19	3
	#3 Search asparaginyl hydroxylase	13:16:07	55
	#1 Search FIH and crystal	13:15:21	6

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(FILE 'HOME' ENTERED AT 15:04:46 ON 23 JUL 2007)

FILE 'CAPLUS' ENTERED AT 15:05:01 ON 23 JUL 2007

L1 95 S FIH
L2 63 S ASPARAGINYL HYDROXYLASE
L3 13 S L1 AND CRYSTAL
L4 8 S L2 AND CRYSTAL
L5 8 S L3 AND L4

=> d L5 1-8

L5 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2007:91493 CAPLUS
DN 146:268875

TI Structural and Mechanistic Studies on the Inhibition of the
Hypoxia-inducible Transcription Factor Hydroxylases by Tricarboxylic Acid
Cycle Intermediates

AU Hewitson, Kirsty S.; Lienard, Benoit M. R.; McDonough, Michael A.;
Clifton, Ian J.; Butler, Danica; Soares, Alexie S.; Oldham, Neil J.;
McNeill, Luke A.; Schofield, Christopher J.

CS Department of Chemistry, University of Oxford, Oxford, OX1 3TA, UK

SO Journal of Biological Chemistry (2007), 282(5), 3293-3301
CODEN: JBCHA3; ISSN: 0021-9258

PB American Society for Biochemistry and Molecular Biology

DT Journal

LA English

RE.CNT 66 THERE ARE 66 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2006:602566 CAPLUS
DN 145:467222

TI Modeling dioxygen binding to the non-heme iron-containing enzymes

AU Nemukhin, A. V.; Grigorenko, B. L.; Topol, I. A.; Burt, S. K.

CS Department of Chemistry, M. V. Lomonosov Moscow State University, Moscow,
119992, Russia

SO International Journal of Quantum Chemistry (2006), 106(10), 2184-2190
CODEN: IJQCB2; ISSN: 0020-7608

PB John Wiley & Sons, Inc.

DT Journal

LA English

RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2006:192616 CAPLUS
DN 144:307289

TI Quantum Chemical Modeling of Reaction Mechanism for 2-Oxoglutarate-
Dependent Enzymes: Effect of Substitution of Iron by Nickel and Cobalt

AU Topol, Igor A.; Nemukhin, Alexander V.; Salnikow, Konstantin; Cachau, Raul
E.; Abashkin, Yuri G.; Kasprzak, Kazimierz S.; Burt, Stanley K.

CS Advanced Biomedical Computing Center, SAIC Frederick, National Cancer
Institute at Frederick, Frederick, MD, 21702, USA

SO Journal of Physical Chemistry A (2006), 110(12), 4223-4228
CODEN: JPCAFH; ISSN: 1089-5639

PB American Chemical Society

DT Journal

LA English

RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2005:391304 CAPLUS
DN 143:92914
TI Selective Inhibition of Factor Inhibiting Hypoxia-Inducible Factor
AU McDonough, Michael A.; McNeill, Luke A.; Tilliet, Melanie; Papamicael, Cyril A.; Chen, Qiu-Yun; Banerji, Biswadip; Hewitson, Kirsty S.; Schofield, Christopher J.
CS Department of Chemistry and the Oxford Centre for Molecular Sciences, Chemistry Research Laboratory, University of Oxford, Oxford, OX1 3TA, UK
SO Journal of the American Chemical Society (2005), 127(21), 7680-7681
CODEN: JACSAT; ISSN: 0002-7863
PB American Chemical Society
DT Journal
LA English
OS CASREACT 143:92914

RE.CNT 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2004:900659 CAPLUS
DN 142:350967
TI Factor inhibiting hypoxia-inducible factor (FIH) and other asparaginyl hydroxylases
AU Lancaster, D. E.; McDonough, M. A.; Schofield, C. J.
CS Chemistry Research Laboratory, Department of Chemistry, Oxford Centre for Molecular Sciences, Oxford, OX1 3TA, UK
SO Biochemical Society Transactions (2004), 32(6), 943-945
CODEN: BCSTB5; ISSN: 0300-5127
PB Portland Press Ltd.
DT Journal; General Review
LA English

RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2004:355105 CAPLUS
DN 140:387803
TI Crystal structure of human asparaginyl hydroxylase FIH-1, HIF interaction with FIH-1, and applications in drug screening and design
IN Ratcliffe, Peter John; Pugh, Christopher William; Schofield, Christopher Joseph; Hewitson, Kirsty Sarah; Elkins, Jonathan Mark
PA Isis Innovation Limited, UK
SO PCT Int. Appl., 289 pp.
CODEN: PIXXD2
DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004035812	A2	20040429	WO 2003-GB4492	20031016
	WO 2004035812	A3	20040819		
	CA 2502541	A1	20040429	CA 2003-2502541	20031016
	AU 2003274330	A1	20040504	AU 2003-274330	20031016
	EP 1554394	A2	20050720	EP 2003-758318	20031016
	JP 2006504415	T	20060209	JP 2004-544485	20031016
	MX 2005PA04033	A	20050608	MX 2005-PA4033	20050415
	US 2007048728	A1	20070301	US 2005-531662	20051021
PRAI	GB 2002-24102	A	20021016		
	GB 2002-26598	A	20021114		

WO 2003-GB4492 W 20031016
WO 2003-GR4492 W 20031016
OS MARPAT 140:387803

L5 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2003:146174 CAPLUS
DN 138:381053
TI Structure of Human FIH-1 Reveals a Unique Active Site Pocket and
Interaction Sites for HIF-1 and von Hippel-Lindau
AU Lee, Cheolju; Kim, Seung Jun; Jeong, Dae Gwin; Lee, Soon Mi; Ryu, Seong
Eon
CS Center for Cellular Switch Protein Structure, Korea Research Institute of
Bioscience and Biotechnology, Daejeon, 305-806, S. Korea
SO Journal of Biological Chemistry (2003), 278(9), 7558-7563
CODEN: JBCHA3; ISSN: 0021-9258
PB American Society for Biochemistry and Molecular Biology
DT Journal
LA English
RE.CNT 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2003:3846 CAPLUS
DN 138:283262
TI Structure of factor-inhibiting hypoxia-inducible factor 1: an
asparaginyl hydroxylase involved in the hypoxic response
pathway
AU Dann, Charles E., III; Bruick, Richard K.; Deisenhofer, Johann
CS Howard Hughes Medical Institute and Department of Biochemistry, University
of Texas Southwestern Medical Center, Dallas, TX, 75390, USA
SO Proceedings of the National Academy of Sciences of the United States of
America (2002), 99(24), 15351-15356
CODEN: PNASA6; ISSN: 0027-8424
PB National Academy of Sciences
DT Journal
LA English
RE.CNT 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD
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<input type="checkbox"/>	L3	L1 and asparaginyl hydroxylase	27
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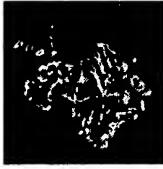
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		Release Date: 15-Mar-2005 Exp. Method: X Ray Diffraction	Classification		
		Resolution: 2.60 Å	Compound	Polymer: 1 Molecule: Putative asparaginyl hydroxylase Chains: A,B,C,D	
		Oxidoreductase	Authors	Joint Center for Structural Genomics (JCSG)	
<input checked="" type="checkbox"/> 1yci	<input type="button" value="View"/> <input type="button" value="Download"/> <input type="button" value="Details"/>	Factor inhibiting HIF-1 alpha in complex with N-(carboxy carbonyl)-D-phenylalanine	Characteristics		
		Release Date: 31-May-2005 Exp. Method: X Ray Diffraction	Classification		
		Resolution: 2.70 Å	Transcription Regulator	Oxidoreductase	
		Compound	Polymer: 1 Molecule: Hypoxia-inducible factor 1 alpha inhibitor Chains: A EC no.: 1.14.11.16 EC		
		McDonough, M.A., McNeill, L.A., Tilliet, M., Papamicael, C.A., Chen, Q.Y., Banerji, B., Hewitson, K.S., Schofield, C.J.	Authors		
<input checked="" type="checkbox"/> 1h2n	<input type="button" value="View"/> <input type="button" value="Download"/> <input type="button" value="Details"/>	FACTOR INHIBITING HIF-1 ALPHA	Characteristics		
		Release Date: 28-Nov-2002 Exp. Method: X Ray Diffraction	Classification		
		Resolution: 2.84 Å	Transcription Activator/inhibitor		
		Compound	Polymer: 1 Molecule: FACTOR INHIBITING HIF1 Chains: A		
		Elkins, J.M., Hewitson, K.S., McNeill, L.A., Seibel, J.F., Schlemminger, I., Pugh, C.W., Ratcliffe, P.J., Schofield, C.J.	Authors		
<input checked="" type="checkbox"/> 2cgn	<input type="button" value="View"/> <input type="button" value="Download"/> <input type="button" value="Details"/>	FACTOR INHIBITING HIF-1 ALPHA WITH SUCCINATE	Characteristics		
		Release Date: 13-Dec-2006 Exp. Method: X Ray Diffraction	Classification		
		Resolution: 2.40 Å	Transcription Activator/inhibitor		

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above.

Classification	Oxidoreductase	
Compound	Polymer: 1 Molecule: HYPOXIA-INDUCIBLE FACTOR 1 ALPHA INHIBITOR Chains: A EC no.: 1.14.11.16 	
Authors	Hewitson, K., Liemark, B., Mcdonough, M.A., Clifton, I.J., Butler, D., Soares, A.S., Oldham, N.J., Mcneill, L.A., Schofield, C.J.	
    	FACTOR INHIBITING HIF-1 ALPHA WITH FUMARATE Release Date: 13-Dec-2006 Exp. Method: X Ray Diffraction Resolution: 2.30 Å	
Classification	Oxidoreductase	
Compound	Polymer: 1 Molecule: HYPOXIA-INDUCIBLE FACTOR 1 ALPHA INHIBITOR Chains: A EC no.: 1.14.11.16 	
Authors	Hewitson, K., Liemark, B., Mcdonough, M.A., Clifton, I.J., Butler, D., Soares, A.S., Oldham, N.J., Mcneill, L.A., Schofield, C.J.	
    	Human Factor Inhibiting HIF (FIH1) Release Date: 20-Nov-2002 Exp. Method: X Ray Diffraction Resolution: 2.20 Å	
Classification	Oxidoreductase	
Compound	Polymer: 1 Molecule: factor inhibiting HIF1 Chains: A Dann III, C.E., Bruick, R.K., Deisenhofer, J.	
Authors		
    	Human Factor inhibiting HIF (FIH1) in Complex with 2-oxoglutarate Release Date: 20-Nov-2002 Exp. Method: X Ray Diffraction Resolution: 2.40 Å	
Classification	Oxidoreductase	
Compound	Polymer: 1 Molecule: factor inhibiting HIF1 Chains: A Dann III, C.E., Bruick, R.K., Deisenhofer, J.	
Authors		
    	FACTOR INHIBITING HIF-1 ALPHA IN COMPLEX WITH HIF-1 ALPHA Release Date: 28-Nov-2002 Exp. Method: X Ray Diffraction Resolution: 2.25 Å	
Classification	Transcription Activator/inhibitor	
Compound	Polymer: 1 Molecule: FACTOR INHIBITING HIF1 Chains: A Polymer: 2 Molecule: HYPOXIA-INDUCIBLE FACTOR 1 ALPHA Fragment: C-TERMINAL TRANSACTIVATION DOMAIN FRAGMENT RESIDUES 786-826 Chains: S	
		

Authors	Elkins, J.M., Hewitson, K.S., Mcneill, L.A., Seibel, J.F., Schlemminger, I., Pugh, C.W., Ratcliffe, P.J., Schofield, C.J.
1h2m	                               
Characteristics	                                     <img alt="Chemical structure of Factor Inhibiting HIF-1